**Unit 1: Linear Systems**

**Warm-up Questions**

1. Solve Using the Method of Elimination
   1. X – y = -1 b. 5x + 2y = -1  
      3x + y = -7 3x + 2y = -9

**Lesson 5: Solving Problems Using Linear Systems**

1. Christian has a total of eight cars and trucks to play with. His birthday is soon. He hopes to double the number of cars he has now. If he does, he will have a total of 11 cars and trucks. How many cars does he have now? How many trucks?
2. Marryam has a bottle of 5% acetic acid and a bottle of 10% acetic acid. How much of each should she use to make 250 ml of 8% acetic acid.  
     
   Let \_\_\_ represent the amount of 5% acid in the 8% mixture  
     
   Let \_\_\_ represent the amount of 10% acid in the 8% mixture